

UNCLASSIFIED MESSAGE

ROUTING

DATE

1315Z 25 OCT 1963

TOP SECRET

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TO : DIRECTOR

FROM :

ATTENTION:

OPS 1-7

INFO :

IMMEDIATE

IN 97347

TOR: 1434Z 25 OCT 63

IMMEDIATE

INFO

CITE

0341

REF 5410

25 YEAR RE-REVIEW

1. ALTHOUGH YOU MAY HAVE REASONS UNKNOWN TO US FOR PREFERRING USE OF MODE 5 OVER MODE 2 ON MSN 3235, WE ARE UNABLE TO SEE ANY ADVANTAGE WHEREAS THERE IS A DECIDED DISADVANTAGE IN USING MODE 5.

2. MODE 5 IN LO GEAR PROVIDES 4:44 OPERATING TIME WITH 90 PER CENT OVERLAP. THIS MODE PROVIDES COVERAGE ONLY 2.87 NM EITHER SIDE OF CENTER LINE OR TOTAL LATERAL COVERAGE OF 5.75 NM.

3. MODE 2 CAN BE USED WITH MODE 1 SPEED AND LO GEAR WHICH PROVIDES 70 PERCENT OVERLAP AND SAME AMOUNT OF OPERATING TIME 4:44, HOWEVER THIS MODE PROVIDES TOTAL LATERAL COVERAGE OF 15:96NM.

4. IF THERE IS CLOUD COVER, PILOT FROM NECESSITY WILL BE USING D R NAVIGATION AND UNLESS WIND INFO IS EXTREMELY ACCURATE WILL BE OFF COURSE WHEN VISUAL CONDITIONS ARE ENCOUNTERED. DUE TO VERY LIMITED LATERAL COVERAGE IN MODE 5 IT IS QUITE POSSIBLE TO MISS TARGETS UNTIL TRACK CAN BE REGAINED WHICH MAY TAKE A LITTLE TIME DUE TO LIMITED FIXES.

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5. IT WOULD SEEM THAT YOUR REASON FOR USING MODE 5 IS TO GAIN MORE OVERLAP. IN MODE 5 YOU CAN EXPECT APPROX 7 TO 9 SEPARATE PICTURES OF THE SAME OBJECT, WHEREAS IN MODE 2 AS OUTLINED IN PAR 3 YOU MAY EXPECT APPROX 5 TO 7 SEPERATE PRESENTATIONS OF THE SAME OBJECT. IT SEEMS QUESTIONABLE IF THE SMALL AMOUNT OF ADDITIONAL OVERLAP IN MODE 5 WILL OUTWEIGH THE DECIDED ADVANTAGE OF THE ADDITIONAL 10 NM LATERAL COVERAGE IN MODE 2. THE SAME AMOUNT OF MATERIAL WOULD BE USED IN EITHER CASE.

6. UNDOUBTEDLY YOU HAVE ALREADY WEIGHED ALL OF THESE FACTORS, HOWEVER FELT IT INCUMBENT UPON US TO PRESENT OUR VIEWS FROM AN OPERATIONAL VIEWPOINT. UNLESS ADVISED DIFFERENTLY WE WILL USE MODE 5 AS DIRECTED.

END OF MESSAGE

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